

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
10 June 2004 (10.06.2004)

PCT

(10) International Publication Number
WO 2004/049391 A2

(51) International Patent Classification⁷: **H01J 61/82**

(21) International Application Number:
PCT/IB2003/005225

(22) International Filing Date:
18 November 2003 (18.11.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
02102637.2 25 November 2002 (25.11.2002) EP

(71) Applicant (for DE only): **PHILIPS INTELLECTUAL PROPERTY & STANDARDS GMBH** [DE/DE]; Stein-
damm 94, 20099 Hamburg (DE).

(71) Applicant (for AE, AG, AL, AM, AT, AU, AZ, BA, BB, BE, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CY, CZ, DK, DM, DZ, EC, EE, EG, ES, FI, FR, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, SZ, TJ, TM, TN, TR, TT, TZ, UA, UG,

UZ, VC, VN, YU, ZA, ZM, ZW only): **KONINKLIJKE PHILIPS ELECTRONICS N.V.** [NL/NL]; Groenewoud-
seweg 1, NL-5621 BA Eindhoven (NL).

(72) Inventors; and

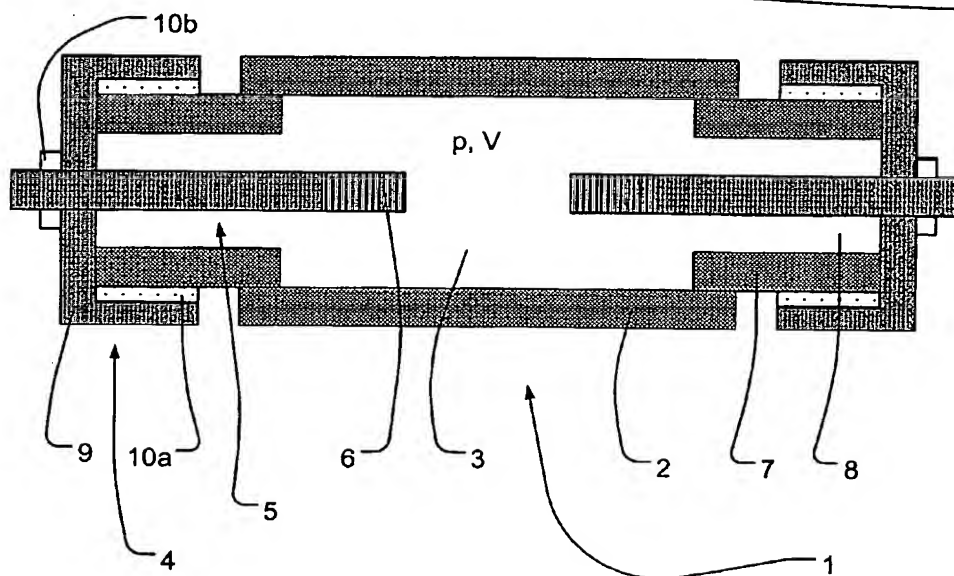
(75) Inventors/Applicants (for US only): **JANSSEN, Marc, Francois, Rosalia** [BE/DE]; c/o Philips Intellectual Property & Standards GmbH, Weissshausstr. 2, 52066 Aachen (DE). **STOFFELS, Jan, Alfons, Julia** [BE/DE]; c/o Philips Intellectual Property & Standards GmbH, Weissshausstr. 2, 52066 Aachen (DE). **VAN GENNIP, Nicasius, Gerardus, Tielemanus** [NL/DE]; c/o Philips Intellectual Property & Standards GmbH, Weissshausstr. 2, 52066 Aachen (DE). **STRAETMANS, Jean-Sebastien** [FR/DE]; c/o Philips Intellectual Property & Standards GmbH, Weissshausstr. 2, 52066 Aachen (DE). **HENDRICKX, Josephus, Christiaan, Maria** [NL/DE]; c/o Philips Intellectual Property & Standards GmbH, Weissshausstr. 2, 52066 Aachen (DE).

(74) Agent: **VOLMER, Georg**; Philips Intellectual Property & Standards GmbH, Weissshausstr. 2, 52066 Aachen (DE).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR,

[Continued on next page]

(54) Title: **HIGH-PRESSURE DISCHARGE LAMP, AND METHOD OF MANUFACTURE THEREOF**



(57) Abstract: The present invention relates to a ceramic gas tight high-pressure burner (1) comprising an ionisable filling, a method of manufacturing said ceramic gas tight high-pressure burner (1), and a lamp comprising said ceramic gas tight high-pressure burner (1), whereby said ceramic gas tight high-pressure burner (1) comprises a discharge vessel (2) having a discharge cavity (3) with a volume in the range of 3 mm³ to 30 mm³, and an internal filling pressure of the discharge cavity (3) in the range from 0.1 MPa to 4 MPa at room temperature. Furthermore the present invention relates to an end closure construction designed as a three-part, a two-part or a one-part end closure device (4) with a reduced crevice (11).